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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/063,429	04/23/2002	Jonathan C. Boomgaarden	gems0187/yod	gems0187/yod 4971	
28046 7590 10/15/2004 - EXAMINER					
FLETCHER, P. O. BOX 692	YODER & VAN SO	HO, AL	HO, ALLEN C		
•••	X 77269-2289		ART UNIT	PAPER NUMBER	
•		2882			
		DATE MAILED: 10/15/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)			
Office Action Summary		10/063,4		BOOMGAARDEN ET AL.			
		Examine		Art Unit			
		Allen C. H		2882	AN		
	The MAILING DATE of this communic				dress		
Period fo	• •						
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNION on sions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) operiod for reply is specified above, the maximum state of the provided period for reply within the set or extended period for reply reply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evunication. of days, a reply within the statutory period will apply and will, by statute, cause the app	ent, however, may a reply be to cutory minimum of thirty (30) da till expire SIX (6) MONTHS fror dication to become ABANDON	imely filed lys will be considered timely in the mailing date of this co ED (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed	d on <u>19 July 2004</u> .					
2a)□	This action is FINAL . 2	b)⊠ This action is r	ion-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims				•		
5)⊠ 6)⊠ 7)⊠							
Applicat	ion Papers						
10)⊠	The specification is objected to by the The drawing(s) filed on <u>23 April 2002</u> Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	is/are: a)⊠ accepto tion to the drawing(s) the correction is requir	be held in abeyance. Se red if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CF	• •		
Priority (under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice 3) Infor	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or Fer No(s)/Mail Date		4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date	D-152)		

DETAILED ACTION

1. The indicated allowability of claims 12, 13, 17-20, 32, and 35-38 is withdrawn in view of the newly discovered reference(s) to Van der Ende (U. S. Patent No. 5,822,814) and Rossi (U. S. Patent No. 4,653,083). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 12, 13, 17, 19, 20, 39, and 41 are rejected under 35 U.S.C. 102(b) as being anticipated by Van der Ende (U. S. Patent No. 5,822,814).

With regard to claim 12, Van der Ende disclosed a patient support for an imaging system, comprising: a curvilinear rail structure (4) attachable to, and movable with, a radiographic receptor (12) of the imaging system; and a limb support (8) slidingly coupled to the curvilinear rail structure.

With regard to claim 13, Van der Ende disclosed the patient support of claim 12, wherein the curvilinear rail structure has a convex path.

With regard to claim 17, Van der Ende disclosed the patient support of claim 12, wherein the limb support is adapted to position a patient limb in a non-obstructive location relative to the radiographic receptor.

With regard to claim 19, Van der Ende disclosed the patient support of claim 12, wherein the limb support comprises a wrist support.

With regard to claim 20, Van der Ende disclosed the patient support of claim 12, wherein the limb support comprises a plurality of lateral support members (e. g., 2, 6, 18) disposed at different vertical positions.

With regard to claim 39, Van der Ende disclosed a method of forming a laterally adjustable limb support for a medical imaging system, comprising the steps of: providing a lateral rail structure (4) attachable to a receptor (12) of the medical imaging system, wherein the lateral rail structure has a curvilinear path; and slidingly coupling (14, 16, 18) a limb support (8) to the lateral rail structure.

With regard to claim 41, Van der Ende disclosed the method of claim 39, wherein the curvilinear path is convex.

4. Claims 32 and 35-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Rossi (U. S. Patent No. 4,653,083).

With regard to claim 32, Rossi disclosed a method of supporting a patient limb during image acquisition by a medical imaging system, comprising the steps of: sliding (7) a limb support (T) along a rail structure (3, 4) coupled to, and movable (rotatable about A1) with, a radiographic receptor (I) of the medical imaging system; and securing the limb support in a desired position along the rail structure.

With regard to claim 35, Rossi disclosed the method of claim 32, wherein the step of sliding the limb support along the rail structure comprises the step of moving the limb support in infinitesimal increments.

With regard to claim 36, Rossi disclosed the method of claim 32, wherein the step of securing the limb support in the desired position comprises the step of frictionally securing the limb support.

With regard to claim 37, Rossi disclosed the method of claim 36, wherein the step of frictionally securing the limb support is activated by performing the step of supporting the patient limb on the limb support (the frictional force is directly proportional to the weight of the patient).

With regard to claim 38, Rossi disclosed the method of claim 32, wherein the step of securing the limb support in the desired position comprises the step of positioning a patient limb in a non-obstructive location relative to the radiographic receptor.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 5. obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Van der Ende (U.
- S. Patent No. 5,822,814) as applied to claim 12 above, and further in view of Conrad et al. (U. S. Patent No. 3,997,792).

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With regard to claim 18, Van der Ende disclosed the patient support of claim 12. However, Van der Ende failed to teach that the limb support comprises a handgrip.

Conrad et al. disclosed a limb support comprising a handgrip (24). Conrad et al. taught that a safety device such as a handgrip is generally required to prevent the patient from falling from the limb support while being x-ray imaged (column 1, lines 17-19).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a handgrip to the limb support, since a person would be motivated to prevent the patient from falling from the limb support while being imaged.

7. Claims 50 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van der Ende (U. S. Patent No. 5,822,814) in view of Conrad *et al.* (U. S. Patent No. 3,997,792).

With regard to claim 50, Van der Ende disclosed a patient support system for a medical imaging system, comprising: a lateral rail structure (4) attachable to a receptor (12) of the medical imaging system; and a patient support (8) movably coupled to the lateral rail structure via a rail guide structure (14, 16).

However, Van der Ende failed to teach that the patient support comprises a plurality of handgrips.

Conrad et al. disclosed a patient support comprising a plurality of handgrips (24). Conrad et al. taught that a safety device such as a handgrip is generally required to prevent the patient from falling from the patient support while being x-ray imaged (column 1, lines 17-19).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a plurality of handgrips to the patient support, since a person

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would be motivated to prevent the patient from falling from the patient support while being imaged.

With regard to claim 51, Van der Ende in combination with Conrad *et al.* disclosed the patient support system of claim 50, wherein the plurality of handgrips are disposed at different vertical positions (lowered and raised positions).

8. Claim 50 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi (U. S. Patent No. 6,450,684 B2) in view of Conrad *et al.* (U. S. Patent No. 3,997,792).

With regard to claim 50, Kobayashi disclosed a patient support system for a medical imaging system, comprising: a lateral rail structure (24) attachable to a receptor (14) of the medical imaging system; and a patient support (12) movably coupled to the lateral rail structure via a rail guide structure (15).

However, Kobayashi failed to teach that the patient support comprises a plurality of handgrips.

Conrad *et al.* disclosed a patient support comprising a plurality of handgrips (24). Conrad *et al.* taught that a safety device such as a handgrip is generally required to prevent the patient from falling from the patient support while being x-ray imaged (column 1, lines 17-19).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a plurality of handgrips to the patient support, since a person would be motivated to prevent the patient from falling from the patient support while being imaged.

Allowable Subject Matter

9. Claims 1-3, 5-11, 21-24, 26, and 28-31 are allowed.

Claims 14-16, 33, 34, and 42-44 are objected to as being dependent upon a rejected base 10.

claim, but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: 11.

With regard to claims 1-3 and 5-11, although the prior art discloses patient support

systems comprising a lateral rail structure attachable to a receptor and a patient support movably

coupled to the lateral rail structure via a rail guide, it fails to teach or fairly suggest that the rail

guide structure is releasably coupled to the lateral rail structure via a releasable latch as claimed

in claim 1.

With regard to claims 21-24, 26, and 28-31, although the prior art discloses medical

imaging systems comprising a rail structure having a curvilinear path coupled to a radiographic

receptor and a patient extremity support, it fails to teach or fairly suggest that the patient

extremity support tiltingly slides along the rail structure with the curvilinear path as claimed in

claim 21.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The

examiner can normally be reached on Monday - Friday from 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward J. Glick can be reached at (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

allen C. Ho

Allen C. Ho
Patent Examiner
Art Unit 2882

08 October 2004